

**C L A I M S**

1. Management system for managing distributed resources (11-16;61-66) comprising a workflow engine (8;88) that can execute management workflows in order to actively control the distributed resources (11-16;61-66),

**characterized in** that autonomic Correlation Services (74-76) are introduced that manage different functional parts of the managed system in cooperation with the workflow engine (88), whereby each Correlation Service (74-76) employs a Correlation Engine (174,175) and a set of rules (184,185,186) that describe how underlying resources (61-66) shall be managed, whereby a controller (44) communicates with the Correlation Services (74-76).

2. Management system according to claim 1,  
**characterized in** that the Correlation Services (74-76) directly (92) communicate with resources (61-66).

3. Management system according to claim 1,  
**characterized in** that rules for filtering low-level events issued by resources (61-66) are deployed into an Event Service Application (50) that is used to filter high-level events out of low-level events.

4. Management system according to claim 3,  
**characterized in** that the controller (44) communicates with the Event Service Application (50).

5. Management system according to claim 1,  
**characterized in** that the Correlation Services (74-76) are modeled as Stateful Web Services.

6. Method for managing distributed resources,  
**characterized in** that

- a) a user defines a Correlation Model comprising the definitions of several Correlation Services for different functional parts of the managed system;
- b) the controller instantiates Correlation Services (74-76) as running Stateful Web Services in accordance with the definitions of the Correlation Model.

7. Method according to claim 6,  
**characterized in** that handles to all of the resources managed by a Correlation Service (74-76), are stored within that Correlation Service.

8. Method according to claim 6,  
**characterized in** that high-level events a specific Correlation Service (74-76) shall react on are defined, and in that the respective Correlation Service (74-76) creates subscriptions with an Event Service (50) in order to be notified when such events are detected.

9. Method according to claim 6,  
**characterized in** that higher-level Correlation Services use Web Service introspection to see, which events are issued by another Correlation Service (75,76).

10. Method according to claim 6,  
**characterized in** that the Correlation Services (74-76) trigger the execution of workflows in order to actively manage their resources (61-66).

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11. Computer program product stored in the internal memory of a digital computer, containing parts of software code to execute the method in accordance with claims 6 to 10.